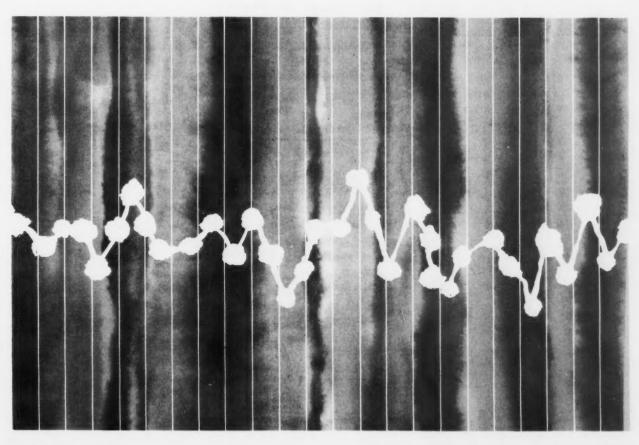
# defense indicators

**APRIL 1976** 





U.S. DEPARTMENT OF COMMERCE . BUREAU OF ECONOMIC ANALYSIS



This report was prepared in the Statistical Indicators Division, Bureau of Economic Analysis. Technical staff and their responsibilities for the publication are—

Barry A. Beckman-Technical supervision and review,

Morton Somer-Selection of seasonal adjustment methods,

Betty F. Tunstall-Collection and compilation of basic data.

The cooperation of various government agencies which provide data is gratefully acknowledged.

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The Secretary of Commerce has determined that the publication of this periodical is necessary in the transaction of the public business required by law of this Department. Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through September 1, 1977.

# U. S. DEPARTMENT OF COMMERCE Elliot L. Richardson, Secretary

# BUREAU OF ECONOMIC ANALYSIS

George Jazi, Director

Morris R. Goldman, Deputy Director

Beatrice N. Vaccara, Associate Director for
National Analysis and Projections

Feliks Tamm, Editor

This publication is prepared under the general guidance of an interagency committee established by the Office of Management and Budget. This committee consists of the following persons:

David T. Hulett, Chairman Office of Management and Budget

James D. August, Board of Governors of the Federal Reserve System.

Murray F. Foss, Council of Economic Advisers, Executive Office of the President

Rose Glubin, Office of Assistant Secretary of Defense (Comptroller), Department of Defense

Dale W. Gordon, Bureau of the Census, Department of Commerce

Ronald Kutscher, Bureau of Labor Statistics, Department of Labor

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# defense indicators

**April 1976**Series ES4 No. 76-4

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## 6 BEA PROJECTS

for economic analysis

**BUSINESS CONDITIONS DIGEST** A monthly report for analyzing economic fluctuations over a short span of years.

This report brings together approximately 600 economic time series in a form convenient for analysts whether their approach to the study of current business conditions and prospects is the national income model, the leading indicators, anticipations and intentions, or a combination of these. Other types of data such as foreign trade, Federal Government activities, and international series are included to facilitate a more complete analysis.

Data are presented in charts and tables. Appendixes provide historical data, series descriptions, seasonal adjustment factors, and measures of variability. A computer tape containing data for most of the series is available for purchase.

**DEFENSE INDICATORS** A monthly report for analyzing the current and prospective impact of defense activity on the national economy.

This report brings together the principal time series on defense activities which influence short-term changes in the national economy. These include series on obligations, contracts, orders, shipments, inventories, expenditures, employment, and earnings. The approximately 60 time series included are grouped in accordance with the time at which the activities they measure occur in the defense order-production-delivery process. Charts and analytical tables facilitate interpretation.

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DIFFUSION INDEX PROGRAM.—A computer program for computing diffusion indexes, cumulated diffusion indexes, and summary measures of the properties of each index.

SURVEY OF CURRENT BUSINESS A monthly report for analyzing current economic developments.

This report provides a useful combination of current data for more than 2,500 statistical series and significant articles analyzing economic developments. These data and analyses include such areas as the national income and product accounts, the balance of payments accounts, plant and equipment expenditures, regional personal income, and the input-output accounts.

**BUSINESS STATISTICS** A biennial reference volume containing statistical series reported currently in the Survey of Current Business.

This report provides historical data back to 1947 for nearly 2,500 time series. The series are accompanied by concise descriptions as to their composition, methods of compilation, comparability, revisions, and availability. Also listed are the names and addresses of organizations which provide the basic data for the series.

#### Introduction

The purpose of this monthly report is to bring together the principal time series on defense activity which influence short-term changes in the national economy. These include series on obligations, contracts, orders, shipments, inventories, expenditures, employment, and earnings. Most are monthly but a few quarterly series are included. The series numbers used are for identification purposes only and do not reflect relationships or order.

#### Classification of Series

Chart 1 compares Government purchases of goods and services for national defense with total gross national product. GNP is the market value of the final output of goods and services produced by the Nation's economy and represents a very broad measure of aggregate economic activity. In addition to national defense purchases, it includes Federal Government purchases of goods and services for nondefense purposes, State and local government purchases, personal consumption expenditures, gross private domestic investment, and net exports of goods and services. Chart 1 also presents national defense purchases as a percent of gross national product and, for both series, changes from the previous quarter.

A related group of series is shown in Chart 4, "Defense Related Balance of Payments Components." These series show the effects of defense-related economic activity on the balance of payments accounts.

The remaining series are grouped in accordance with the time at which the activities they measure occur within the defense order-production-delivery process. Those series measuring activities that usually precede production, such as new orders placed with defense products industries and contract awards, are presented in Chart 2, "Advance Indicators of Defense Activity." Chart 3, "Intermediate and Final Indicators of Defense Activity," presents series that measure activities which tend to move at the same time as production (such as employment) and activities which usually follow production (such as shipments).

#### Series Included

Following is a list of the series as they appear in charts 1, 2, 3, and 4 (the source agencies are abbreviated in parentheses; detailed lists of sources for charts 1, 2, and 3 appeared as appendixes to the August and October 1968 issues of this report).

#### Gross National Product and National Defense Purchases

Gross national product (BEA)

Federal Government purchases of goods and services, national defense (BEA)

National defense purchases as a percent of gross national product (BEA)

Gross national product, changes from previous quarter (BEA) National defense purchases, changes from previous quarter (BEA)

#### Advance Indicators of Defense Activity

Defense Department gross obligations incurred, total (DOD)

Defense Department gross obligations incurred, procurement (DOD)

Gross obligations incurred outside the Government for national defense (Treasury)

Defense Department military prime contract awards for work performed in the United States (DOD)

Defense Department gross unpaid obligations outstanding (DOD)

Manufacturers' new orders (Census):

Defense products industries

Defense products

Manufacturers' new orders from the U.S. Government, aerospace industries (Census):

Average weekly overtime hours, production workers, defense products industries (BLS)

Accession rate, defense products industries (BLS)

Layoff rate, defense products industries (BLS)

#### Intermediate and Final Indicators of Defense Activity

Output of defense and space equipment (FRB)

Manufacturers' inventories (Census):

Defense products industries

Defense products

Manufacturers' unfilled orders (Census):

Defense products industries

Defense products

Manufacturers' unfilled orders from the U.S. Government,

aerospace industries (Census)

Defense Department progress payments outstanding (DOD) Employment in defense products industries, total (BLS) Employment in defense products industries, production workers (BLS)

Index of aggregate weekly hours, defense products industries (BLS)

Index of aggregate weekly payrolls, production workers, defense products industries (BLS)

Defense Department personnel, military, active duty (DOD)
Defense Department personnel, civilian, direct hire employment (DOD)

Defense Department net outlays, total, military functions and military assistance (DOD)

Defense Department net outlays, procurement (DOD)

Budget outlays for the national defense function (Treasury) Defense Department personnel compensation (DOD)

Manufacturers' shipments (Census):

Defense products industries

Defense products

Manufacturers' shipments to the U.S. Government, aerospace industries (Census)

Ratio, manufacturers' unfilled orders to shipments (Census):

Defense products industries

Defense products

Ratio, manufacturers' inventories to shipments (Census): Defense products industries

Defense products

#### **Defense-Related Balance of Payments Components**

Transfers under U.S. military agency sales contracts—exports (BEA)

Direct defense expenditures-imports (BEA)

U.S. Government cash receipts associated with military sales contracts (BEA)

Some additional data are included in the tables though not presented in the charts. These include Defense Department military prime contract awards by procurement category (e.g., for aircraft, missiles and space systems, ships, weapons, and ammunitions), the operations component of Defense Department

gross obligations incurred, gross unpaid obligations outstanding, and net outlays and the procurement component of gross unpaid obligations outstanding.

#### **Description of Basic Data**

The Department of Defense compiles statistics on obligations, contract awards, personnel compensation, and outlays. The DOD obligations and outlays data are based on the Defense Department's monthly Status of Funds report which is developed from accounting data and is designed to provide information on the total status of Defense Department financing. Accounts included in this report are aggregated by appropriation categories including personnel costs, operations and maintenance, procurement, research and development, and construction. The Status of Funds report duplicates some obligations. That is, obligations of one government unit to another unit are not netted out.

The Defense Department's Contract Awards report covers the awarding of procurement contracts. These include obligations for operating and maintenance supplies, equipment and services, research and development, and construction in addition to the obligations for items that constitute the fiscal "procurement" category. The statistics are aggregated by commodity categories including aircraft, missile and space systems, ships, weapons, ammunition, electronics and communication equipment, fuels, and textiles and clothing. The Contract Awards report includes procurement for NASA, other nondefense agencies, and the Foreign Military Sales Program which are not included in the Status of Funds report.

The Census quarterly new orders, unfilled orders and shipments series for "aerospace industries" are based on reports of companies classified into the following industry categories:

Industry	SIC Code
Aircraft and parts Guided missiles and space vehicles, completely assembled	372 1925

The Census and BLS data for "defense products industries" presented in this report cover companies and establishments classified into the following industry categories in accordance with the Standard Industrial Classification Manual, 1967 edition, Executive Office of the President, Bureau of the Budget:

Industry	SIC Code
Ordnance and accessories	19
Communication equipment	 366
Aircraft and parts	 372

Establishments reporting to the BLS are classified into industries on the basis of their principal product or activity as determined from information on annual sales volume, which is collected each year on a supplement to the monthly report. The entire employment of an establishment making more than one product or engaging in more than one activity is included under the industry accounting for the largest percentage of the annual sales of that establishment.

The Census Bureau's monthly survey is based primarily on reports at the company level and the monthly estimates are benchmarked to the establishment data from the *Annual Survey* 

Both the Census and the BLS data include a significant amount of nondefense activities carried on by companies and establishments classified in the above industries. For example, the data cover the production of commercial as well as military aircraft. On the other hand, they exclude significant amounts of defense work carried on by companies and establishments classified in industries other than those listed above (e.g., the manufacture of military uniforms and the shipbuilding industry).<sup>2</sup>

Census data for "defense products" are based on separate reports on defense work filed by large defense contractors in the ordnance, communications, complete aircraft, aircraft parts, and shipbuilding industries. Thus, they differ from the "defense products industries" data in that they include defense activity in the shipbuilding industry and exclude nondefense work in the other industries covered. Defense products data cover work for the Department of Defense and exclude contracts for the National Aeronautics and Space Administration and the Atomic Energy Commission.

The DOD data are not strictly comparable in coverage with either the BLS or the Census data since the Defense Department figures (1) cover products of industries not included in the defense products category; (2) generally do not include non-defense activities (except that some series, such as contract awards, include activities by the Department of Defense on behalf of nondefense agencies); and (3) do not cover intermediate activities such as those related to subcontracting and supplying of parts. Thus, the Census Bureau data for manufacturers' new orders and shipments of defense products industries, for example, differ in coverage from the DOD contract awards and net outlays series.

The Department of Defense data are not comparable with Federal Government purchases of goods and services for national defense or the Treasury Department obligations and outlays data since the BEA and Treasury data cover defense-related activities of other agencies such as the Atomic Energy Commission, the Selective Service System, and the Office of Emergency Planning.

Projects to improve the comparability of the data collected by the Bureau of the Census, the Bureau of Labor Statistics, and the Department of Defense and to improve the separation of defense and nondefense activity for the Census and BLS data are being undertaken by the statistical agencies under the leadership of the Interagency Committee mentioned earlier in this report.

of Manufactures. Also, many of the large diversified companies file separate divisional reports monthly. Although the reports in the survey are also classified according to their principal product or activity, this difference in the organizational level from which reports are received results in firms being classified into different industries in the BLS and Census surveys and, consequently, limits somewhat the comparability of the data collected by these agencies. However, as we know from past studies in this area, some differences in industrial classification between BLS and Census data would remain even if reports came from the same organizational levels.

<sup>&</sup>lt;sup>1</sup> An establishment is a single physical location where business is conducted (e.g., a plant). A company often includes more than one establishment.

<sup>&</sup>lt;sup>2</sup>See the Bureau of the Census publication *Shipments of Defense-Oriented Industries*, Current Industrial Reports, Series MA-175, for annual estimates of shipments by industry to the Department of Defense, the National Aeronautics and Space Administration, and the Atomic Energy Commission. Included also are industries not covered by the "defense products industries" category.

#### Variability of Data

Seasonal variations dominate the movements of many time series, and adjustments for average seasonal fluctuations are often necessary to bring out the underlying trends of the series. These seasonal adjustments allow for the effects of repetitive intrayear variations resulting primarily from normal differences in weather conditions and from various institutional arrangements. An additional adjustment is sometimes necessary for series which contain considerable variation resulting from the number of working or trading days in each month. As used in this report, the term "seasonal adjustment" includes trading-day adjustments where they have been made.

Most of the series in this report are shown in seasonally adjusted form. For Defense Department and BLS series, unadjusted data are also shown since they are not readily available elsewhere. Current seasonal adjustment factors are shown in appendix A.

The effect of seasonal adjustment in reducing the month-to-month variation in the data can be seen in appendix B. There, the first two columns show the average month-to-month percent change (without regard to sign) in the data before and after seasonal adjustment. Some series still show very irregular month-to-month movements after adjustment for seasonal variation. The measures in appendix B also indicate the month-to-month variation in the irregular and short-term trend components of the series. For many series, irregular movements tend to dominate 1- or 2-month comparisons, and the underlying short-term trend becomes dominant in comparisons over longer spans. The "months for cyclical dominance" (MCD) measure estimates the span of months required for the short-term trend to dominate the irregular component. Series with an MCD of 4 or more are supplemented with a moving average (with the

number of terms equal to MCD) in the charts. Data for these moving averages are listed in the basic data tables.

#### **Guide to Charts and Tables**

Most series are plotted on a standard ratio scale so that equal percent changes cover the same vertical distance. For these series, an increase of 100 percent covers approximately 1 inch. Arithmetic scales are used for series with zero or negative data, series which could approach zero (e.g., average overtime hours and layoff rate), and series expressed in percent.

In general, monthly data are plotted with a solid line and quarterly data are represented by a solid line with quarterly plot points. Quarterly series are also identified with a "Q" after their titles. For series which include a moving average, a dashed line is used for the actual monthly data and a solid line for the moving average. (The moving average values are centered within the span of months they are computed from.) Exceptions to this scheme may be necessary for special situations. Data apply to the whole period except for series designated "EOM" (end of month) or "EOQ" (end of quarter). The number in the box at the right of each series indicates the latest month (Arabic) or quarter (Roman) plotted. Parallel lines across a series indicate a break in continuity (e.g., data not available or change in series definition).

Tables 1, 2, 3, and 4 present current data for the series shown in the charts, including the moving averages. They also include unadjusted data for some series and data for related series which are not plotted. Table A summarizes the most recent data and percent changes for many of the series in the report. Historical data are shown on an intermittent basis in appendix C. (The index indicates the appropriate issue for each series.)

The May issue of <u>DEFENSE INDICATORS</u> is scheduled for release on June 1.

#### Table A. Summary of Recent Data and Current Percent Changes for Principal Defense Indicators

(Preliminary and revised figures are not identified here but the user may consult tables 1, 2, 3, and 4 where such identification is given)

					Basic	data					Percent	change		je .
Series title	Unit of	Ave	rage								10			number
Series title	measure	1974	1975	3d Q 1975	4th Q 1975	1st Q 1976	Jan. 1976	Feb. 1976	Mar. 1976	Jan. '76 to Feb. '76	Feb. '76 to Mar. '76	3d Q '75 to 4th Q '75	4thQ '75 to 1st Q '76	Series
GROSS NATIONAL PRODUCT AND NATIONAL DEFENSE PURCHASES														
200. Gross national product (BEA)	Ann. rate, bil. dol	1406.9	1498.9	1528.5	1572.9	1616.3						2.9	2.8	20
264. Federal Government purchases of goods and services, national defense (BEA)	do	77.4	84.0	84.9	87.4	87.0				•••		2.9	-0.5	21
613. National defense purchases as a percent of GNP (BEA) <sup>3</sup>	Percent	5.5	5.6	5.6	5.6	5.4	•••	•••	•••	•••	•••	0.0	-0.2	61
ADVANCE INDICATORS OF DEFENSE ACTIVITY														
Defense Dept. gross obligations incurred (DOD):	Ann. rate,													
617. Total	bil. dol	93.9 20.6	98.5	103.7	97.5 17.1	NA NA	97.6 15.9	95.5 19.3	NA NA	-2.2 21.4	NA NA	-6.0 -33.5	A!A NA	6:
621. Procurement	do	101.1	NA.	107.2	NA.	NA.	NA NA	NA.	NA	NA NA	NA.	NA NA	NA.	6:
625. Defense Department military prime contract awards for work performed in the U.S. (DOD)	do	41.4	43.3	48.0	35.9	NA.	40.9	35.9	NA	-12.2	NA	-25.2	NA NA	6:
643. Defense Department gross unpaid obligations outstanding (DOD).	Bil. dol., end of period	40.0	40.9	42.3	40.9	NA	40.8	41.1	NA	0.7	NA	-3.3	NA	61
648. Mfrs.' new orders, defense products (Census)	Ann. rate, bil. dol	22.8	21.2	23.4	18.6	25.0	18.0	21.9	35.1	21.7	60.3	-20.5	34.4	61
650. Manufacturers' new orders from the U.S.  Government, aerospace industries (Census)	do	19.1	18.3	18.9	22.0	NA			***	***	•••	16.4	NA	6!
653. Average weekly overtime hours, production workers, defense products industries (BLS) <sup>1</sup>	Hours	2.8	2.5	2.5	2.5	NA	2.6	2.6	NA	0.0	NA	0.0	NA	65
654. Accessions, defense products industries (BLS)1	Number per 100 employees	2.1	1.4	1.3	1.4	NA.	1.4	NA	NA	HA	NA.	0.1	NA	65
655. Layoffs, defense products industries (BLS) <sup>1</sup>	do	0.6	1.2	1.2	0.8	NA	1.0	NA	NA	NA	NA	-0.4	NA	65
INTERMEDIATE AND FINAL INDICATORS OF DEFENSE ACTIVITY							,							
657. Output of defense and space equipment (FRB)	1967=100	82.3	81.9	81.9	79.8	79.1	79.3	79.1	78.9	-0.3	-0.3	-2.6	-0.9	6:
659. Mfrs.' inventories, defense products (Census)	Bil. dol., end of period	6.5	7.8	7.7 26.0	7.8 25.4	NA NA	7.€	7.8	NA	2.6	NA	1.3	NA	65
664. Manufacturers' unfilled orders from the U.S.  Government, aerospace industries (Census)	do	20.7	21.9	20.8	21.9	26.0 NA	25.0	25.0	26.0	0.0	4.0	5.3	2.4 NA	61
666. Defense Department progress payments out- standing (DOD) (0)	do	9.2	11.3	11.0	11.3	NA.	***	***	***	***	***	2.7	NA NA	61
Employment in defense products industries (BLS): 670. Total	Thousands	1,177	1,118	1,108	1,081	1,079	1,081	1,076	1,079	-0.5	0.3	-2.4	-0.2	6
671. Production workers	do	618	570	563	542	542	542	541	543	-0.2	0.4	-3.7	0.0	6
products industries (BLS)	1967=100	69.4	66.0	65.6	63.9	NA	64.1	63.4	NA	-1.1	NA	-2.6	HA	63
workers, defense products industries (BLS) Defense Department personnel (DOD):(ii)	do	98.2	100.5	101.3	99.6	NA	101.1	100.6	NA	-0.5	MA	-1.7	NA	6
677. Military, active duty	Thousands, end of period	2,140	2,084	2,105	2,084	2,090	2,092	2,093	2,090	0.0	-0.1	-1.0	0.3	67
678. Civilian, direct hire employment  Defense Department net outlays (DOD): 680. Total, military functions and military	Ann. rate.	1,043	1,028	1,030	1,028	NA	1,023	1,019	NA	-0.4	NA	-0.2	NA	67
assistance. 682. Procurement	bil. dol	83.6 15.5	88.5 16.2	95.0 16.5	91.9	80.6 15.0	79.6 16.6	82.1 15.5	80.2	3.1	-2.3 -16.1	-3.3 -1.2	-12.3	61
683. Budget outlays for the national defense function (Treasury)	do	84.8	92.5	98.0	95.9	82.0	82.5	73.5	90.0	-10.9	22.4	-2.1	-14.5	61
685. Defense Dept. personnel compensation (DOD) 688. Mfrs.' shipments, defense products (Census)	do	33.5	34.6	35.3	35.4	P'A 22.5	35.0	33.7	NA 22.4	-3.7 2.7	-1.8	6.0	NA F.F	61
689. Manufacturers' shipments to the U.S. Government, aerospace industries (Census)	do	15.2	17.2	19.3	17.3	NA						-10.4	NA	6
691. Ratio, manufacturers' unfilled orders to shipments, defense products (Census)	Ratio	14.5	14.9	15.5	14.6	13.6	13.5	13.2	14.0	-2.2	6.1	-5.8	-6.8	6
693. Ratio, manufacturers' inventories to shipments, defense products (Census)	do	3.9	4.3		4.4	HA	4.1	4.1	NA	0.0		-4.3	NA	6
DEFENSE-RELATED BALANCE OF PAYMENTS COMPONENTS														
546. Transfers under U.S. military agency sales	Ann. rate,													
contracts—exports (BEA) <sup>1</sup> .  547. Direct defense expenditures—imports (BEA) <sup>1</sup>	mil. dol	2,944 5,103			4,648	NA NA	:::	***	***	:::	***	368 188	Al4	5
696. U.S. Government cash receipts associated with military sales contracts (BEA) <sup>1</sup>	do	2,957	4,684	4,716	5,348	NA.						632	NA.	69

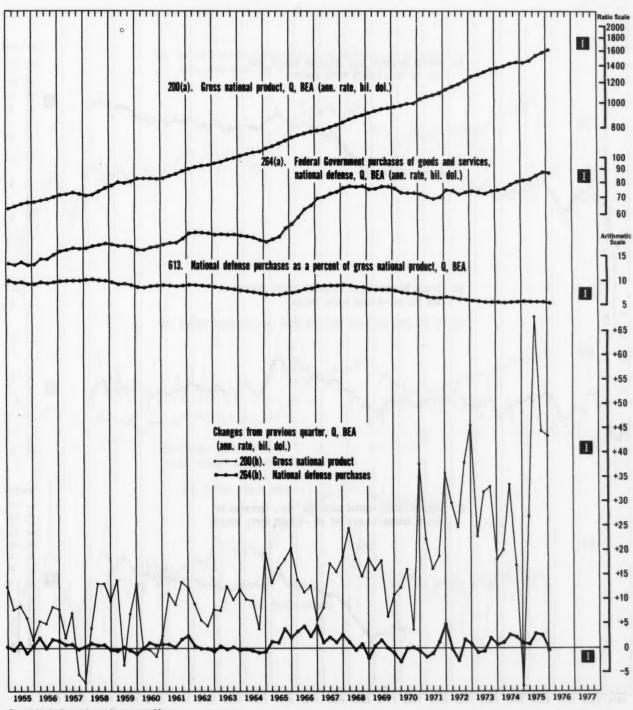
NOTE: This table is presented as a convenient summary of the current data for many of the indicators in this report. In many cases, data shown here are rounded to fewer digits or are in different units than those shown in tables 1, 2, 3, and 4. Where available, annual figures are those published by the source agencies, otherwise they (and the quarterly figures for monthly series) are averages or totals of the data as shown in the data tables. Series are seasonally adjusted except for those indicated by ... which appear to contain no seasonal movement.

NA = not available.

1. Differences rather than percent changes are shown for this series.

#### **Gross National Product and National Defense Purchases**

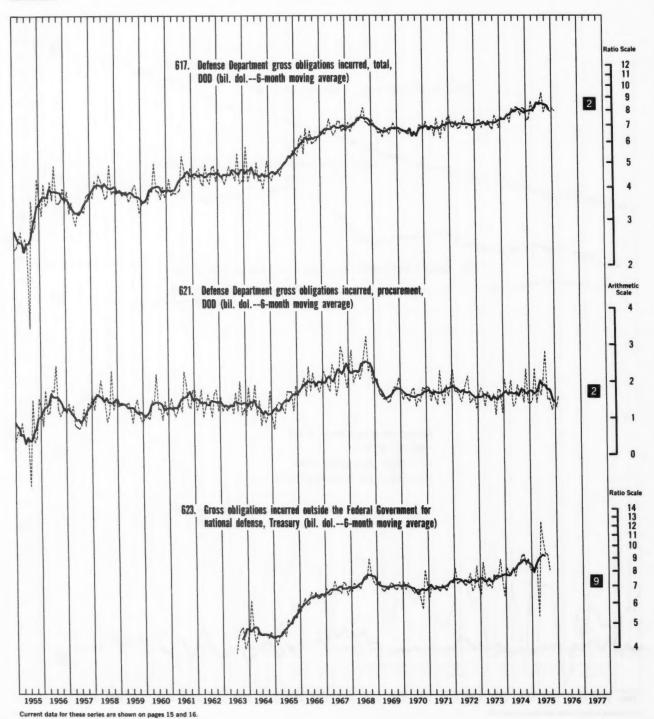




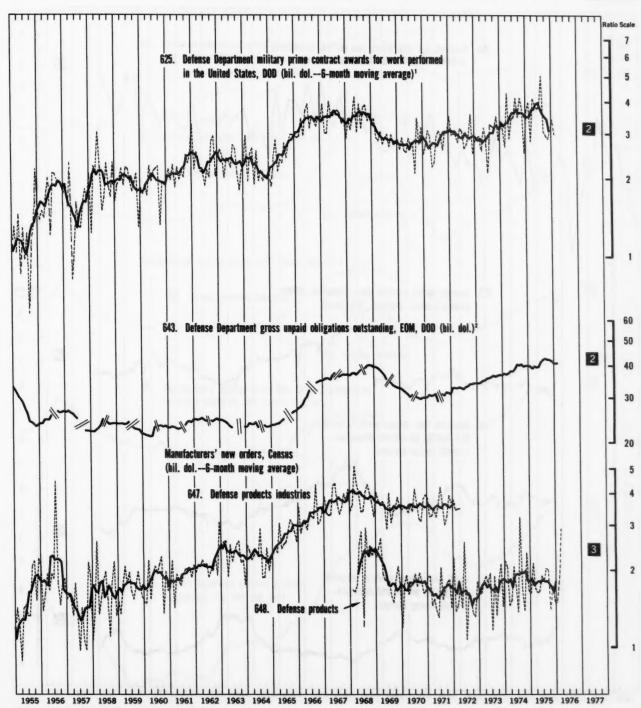
Current data for these series are shown on page 14.



# **Advance Indicators of Defense Activity**



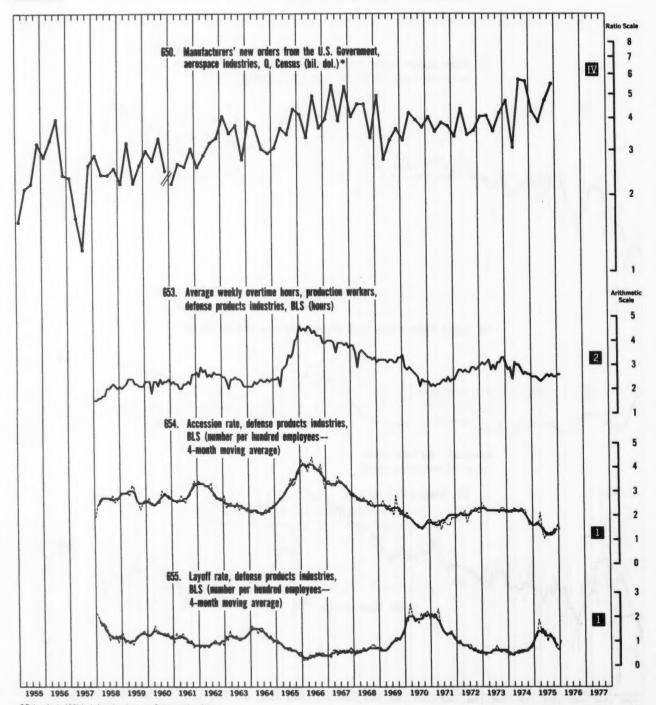




<sup>&</sup>lt;sup>1</sup> Data prior to July 1955 exclude orders written to other Government agencies.

<sup>2</sup> Data for the following months not available: July of 1956-71; August of 1956-57 and 1963-66; September of 1957, 1963, and 1965; and October and November of 1963. Current data for these series are shown on pages 16 and 20.

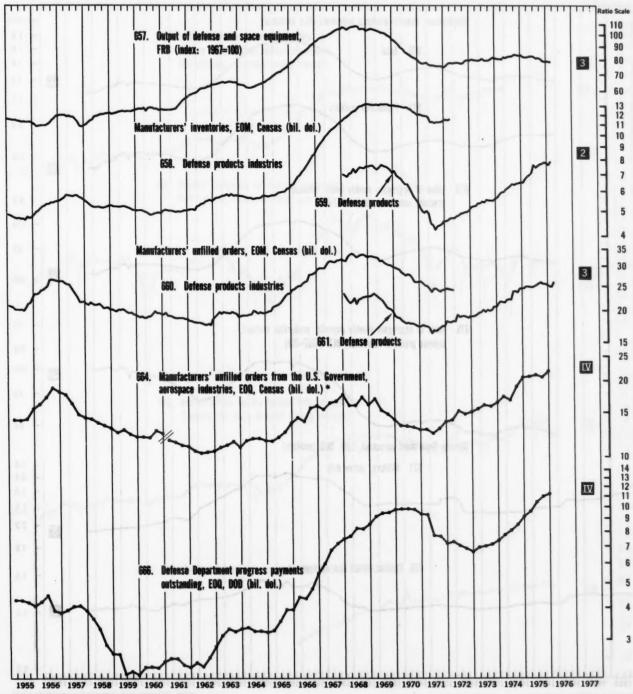




<sup>\*</sup>Data prior to 1961 include orders from non-Government custo Current data for these series are shown on pages 20 and 21.

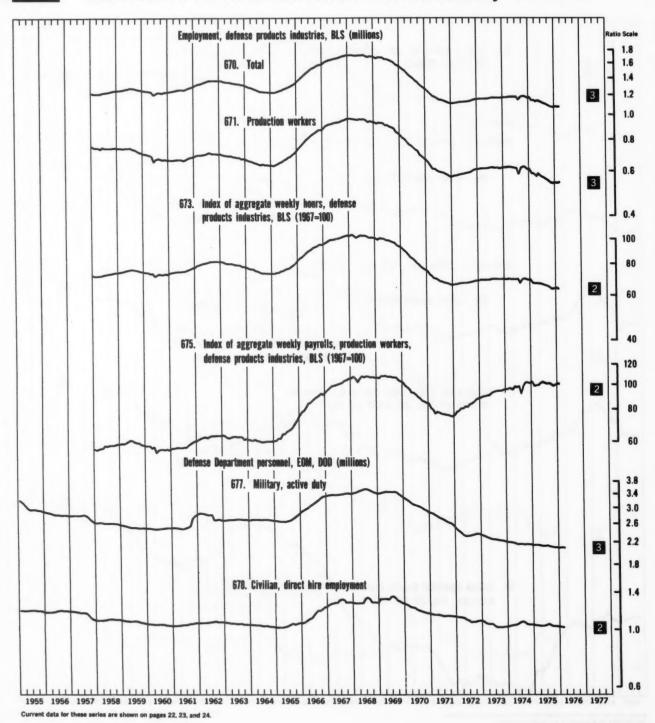
# CHART 3

#### Intermediate and Final Indicators of Defense Activity

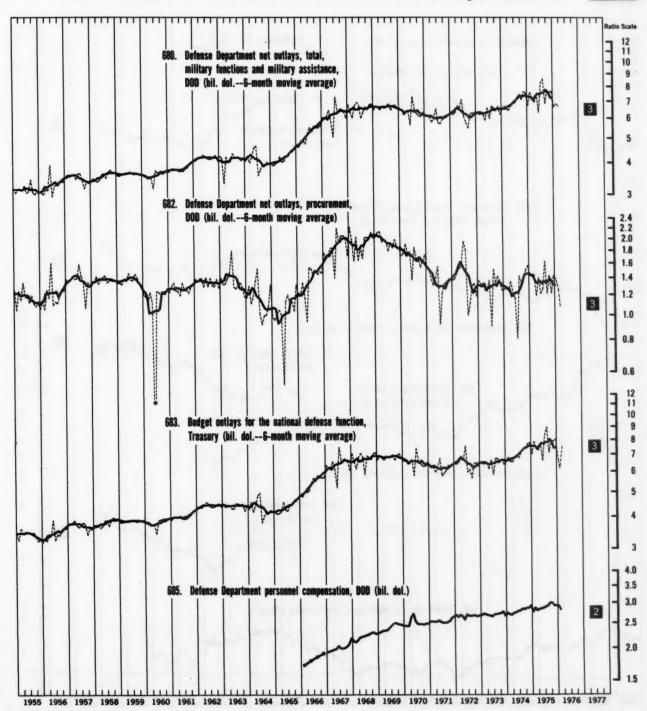


\*Data prior to 1961 include orders from non-Government customers. Current data for these series are shown on page 22.



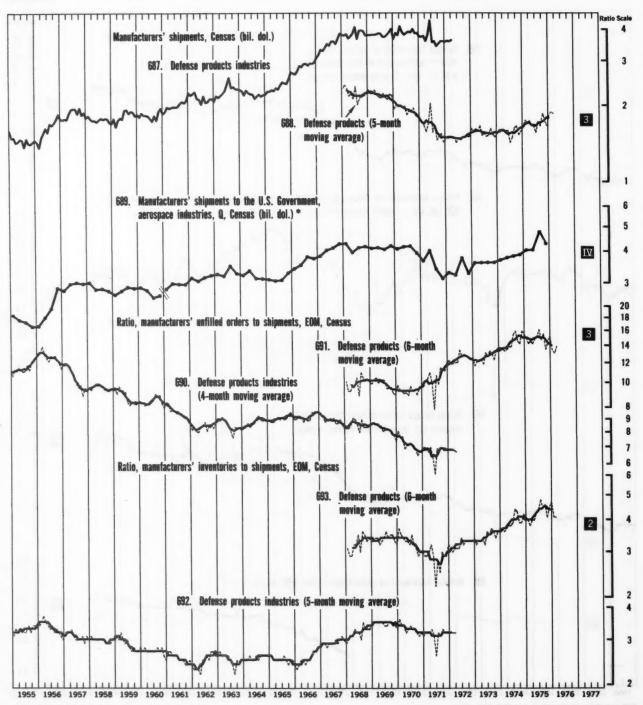






\*Net expenditures for procurement, June 1960--\$245 million. Current data for these series are shown on pages 24 and 25.

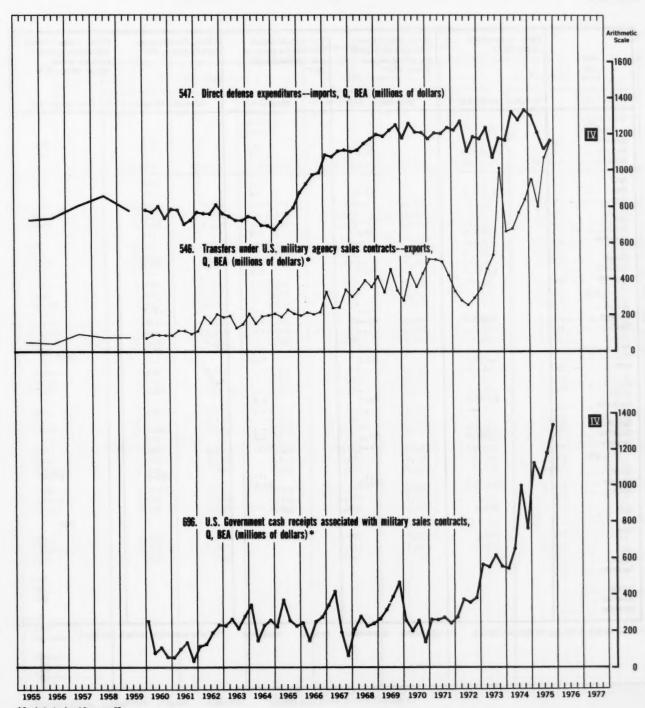




\*Data prior to 1961 include shipments to non-Government customers. Current data for these series are shown on page 26.

## **Defense-Related Balance of Payments Components**





**♦See footnotes 1 and 2 on page 27.**Current data for these series are shown on page 27.



# **Gross National Product and National Defense Purchases**

Year and month	200(a). Gross national product, BEA*	264(a). Federal Govern- ment purchases of goods and services, national defense, BEA*	613. National defense purchases as a percent of gross national product, BEA*	200(b). Change in gross national product, BEA*	264(b). Change in Federal Government purchases of goods and services, national defense, BEA*
	(Ann. rate, bil. dol.)	(Ann. rate, bil. dol.)	(Percent)	(Ann. rate, bil. dol.)	(Ann. rate, bil. dol.)
1974					
January			•••	18.2	0.6
February	1,370.9	74.8	5.5	•••	•••
March	•••	***	•••	•••	•••
April				20.1	1.0
May	1,391.0	75.8	5.4		
une		•••		•••	•••
				22.4	2.6
July	2 10:11	78.4	5.5	33.4	2.0
August	1,424.4	10.4	2.0	***	
osptember		***			
October				16.9	2.1
November	1,441.3	80.5	5.6	•••	•••
1975	• • •	•••			•••
January				-7.7	0.9
February	1,433.6	81.4	5.7		•••
March		***		•••	•••
April				27.0	0.7
May		82.1	5.6		
June	1,400.0				
				(= -	
July			::;	67.9	2.8
August	-,,	84.9	5.6	•••	
ooptomoor	***	***			
October			•••	44.4	2.5
November		87.4	5.6	•••	•••
December	•••	***	•••	***	
1976					
January			•••	p43.4	p-0.4
February		p87.0	p5.4		
April					
July					
October			A		

Note: All data on this page are seasonally adjusted. NA=not available; p=preliminary; r=revised; e=estimated. \*Indicates series shown in charts. (See page 5.)



# **Advance Indicators of Defense Activity**

		617. Total		619. 0	perations	621. Procurement			
Year and month	Not seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data— 6-month*	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data— 6-month*	
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	
1974								. (40	
anuary	8,113 6,826 6,613	7,527 7,398 7,485	7,374 7,390 7,368	4,991 4,187 4,377	4,714 4,758 4,699	2,337 1,677 1,381	2,077 1,708 1,642	1,689 1,731 1,658	
April	7,375 6,104 10,110	7,762 7,187 8,166	7,588 7,664 7,810	4,982 4,434 6,170	4,804 4,662 5,466	1,546 894 2,465	2,040 1,330 1,412	1,702 1,675 1,672	
July	9,285 8,874	7,983 8,279 8,179	7,926 7,912 8,C33	5,901 5,224 4,771	5,110 5,203 5,040	1,332 1,416 1,919	1,919 1,692 1,842	1,706 1,607 1,777	
October	7,965 7,600	7,681 8,211 8,116	8,075 7,968 7,832	5,394 4,471 4,826	4,999 4,786 5,334	1,709 2,281 1,646	1,446 2,349 1,431	1,780 1,697 1,667	
1975 January February March	6,904	7,341 7,467 8,677	7,916 7,958 7,956	5,471 4,604 4,787	5,148 5,220 5,251	1,895 1,569 1,994	1,424 1,509 2,349	1,751 1,748 1,665	
April	7,403 6,796	7,933 8,199 8,583	8,033 8,246 8,569	5,424 4,761 6,275	5,209 5,121 5,560	1,147 1,147 2,693	1,425 1,850 1,642	1,700 1,808 2,027	
July	. 9,812	8,614 9,406 7,907	8,440 8,516 8,494	6,641 5,337 5,203	5,624 5,327 5,442	1,510 2,508 1,506	2,074 2,821 1,535	1,891 1,911 1,808	
October November December	6,976	8,387 8,069 7,925	8,385 8,304 8,064	6,130 4,829 4,895	5,660 5,334 5,373	1,733 1,320 1,428	1,543 1,234 1,494	1,78/ 1,658 1,450	
1976 January February March	7,206	8,132 7,962 (NA)	(NA)	6,010 4,745 (NA)	5,729 5,203 (NA)	1,697 1,664 (NA)	1,321 1,611 (NA)	(NA	
April									
July									

NA=not available; p=preliminary; r=revised; e=estimated.

\*Indicates series shown in charts. (See page 6.)



	outside the Fed			Defense Department military prime contract awards for work performed in the United States, DOD									
V	ment for nation Treasury	nal defense,		625. Total		626.	Aircraft		le and space stems				
Year and month	Seesonally adjusted*	Moving average of seasonally adjusted data— 6-month*	Not seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data— 6-month*	Not seasonally adjusted	Seesonally adjusted	Not seasonally adjusted	Seasonally adjusted				
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)				
1974													
anuary	8,264 7,874 7,819	7,784 7,673 7,712	3,084 2,613 2,602	3,378 3,141 2,677	3,123 3,317 3,212	1,093 598 517	2,424	206 305 255	844				
April	8,270 7,647 p8,534	p8,068 p8,112 p8,333	3,127 2,250 6,086	4,343 2,881 3,440	3,310 3,329 3,498	459 308 502	1,104	303 297 323	1,27				
July	8,526 9,202 9,326	p8,584 p8,623 p8,842	3,924 4,091 3,586	3,494 4,153 3,502	3,636 3,605 3,754	1,089 591 866	2,446	618 430 848	1,44				
October	8,503 8,963 8,139	8,776 8,700 8,545	4,165 3,207 2,616	4,161 3,777 2,532	3,603 3,636 3,609	1,156 856 569	2,900	410 434 361	1,10				
January February March	8,069 8,271 8,590	8,422 7,894 8,472	3,567 3,321 2,625	3,693 3,987 2,817	3,494 3,488 3,513	1,062 509 421	2,147	346 276 244	98				
April	5,335 12,426 pl0,487	p8,863 p9,084 p9,259	2,914 2,713 6,626	4,122 3,926 3,773	3,720 3,744 3,925	316 386 732	1,240	377 242 537	1,65				
July	9,321	p9,176 (NA)	4,376 5,295 3,179	3,842 5,072 3,080	3,969 3,776 3,600	810 1,196 469	2,415	661 1,070 379	1,58				
October	(101)		3,174 2,608 2,870	2,961 2,872 3,130	3,493 3,420 3,074	817 373 483	1,807	463 498 426	1,32				
January February March	1		3,288 2,529 (NA)	3,407 2,993 (NA)	(NA)	546 335 (NA)	(NA)	341 278 (NA)	(NA				
April													
July													
October									0				

NA=not evailable; p=preliminary; r=revised; e=estimated. \*Indicates series shown in charts. (See pages 6 and 7.)



			Defense Department mi in the	litary prime contract a United States, DOD-C		ed		
Year	628. Ships, not seasonally adjusted	629. Weapons	and ammunition		and communications ipment	631. Combat vehicles		
and month		Not sessonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted	
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	
1974								
January February March	52 212 103	135 244 142	541	311 415 206	1,013	102 5 40	253	
April	190 155 1,175	170 123 554	680	403 270 732	1,110	129 98 404	502	
July	230 625 134	37 72 111	453	321 402 352	1,316	59 104 151	249	
October	210 328 109	122 114 165	334	598 349 254	1,239	25 22 81	126	
January February Merch	325 251 11	125 160 217	515	414 331 535	1,379	21 66 52	288	
April	621 94 858	147 128 672	683	313 587 696	1,255	23 86 161	191	
July	814	52 126 95	630	394 470 430	1,559	126 70 90	259	
October	114	128 66 146	303	439 445 332	1,277	67 14 62	172	
January February March	124	76 101 (NA)	(NA)	263 305 (NA)	(NA)	48 26 (NA)	(NA)	
April May								
October								

NA=not available; p=preliminary; r=revised; e=estimated.

#### defense indicators



# **Advance Indicators of Defense Activity--Continued**

			Defense Depart	ment military prime of in the United States		ork performed			
Year	632. Othe	er hard goods	633. S	oft goods	634. Co	nstruction	635. Services		
and month	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted	
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	
1974									
January February March	128 111 179	467	297 145 487	1,374	90 52 92	258	204 138 181	900	
April	294 139 352	564	344 214 256	1,081	248 58 604	504	166 168 524	846	
July	163 158 129	677	338 819 219	890	131 148 112	601	451 303 233	762	
October	108 127 135	391	267 226 222	692	138 126 104	578	446 185 181	742	
January	154 143 152	497	217 704 191	1,489	168 134 127	481	307 341 201	1,39	
April	147 165 399	487	164 121 213	658	156 291 1,073	838	190 211 574	925	
July	104 173 150	616	811 307 256	937	82 61 178	486	634 570 204	1,130	
October	156	631	173 214 244	687	149 56 176	605	216 210 121	52:	
January February March April May	201 (NA)	(NA)	817 330 (NA)	(NA)	85 107 (NA)	(NA)	244 256 (NA)	(NA)	
June July August September									
October									

NA=not available; p=preliminary; r=revised; e=estimated.



			litary prime contract aw United States, DOD-Co		d	prime contra	partment military act awards for	
Year	636. Contract	s under \$10,000		nal and nonprofit autions	638. Civilian Health and Medical	work outside the United States, DOD		
and month	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted	Program of the Uniformed Services (CHAMPUS), not seasonally adjusted	Not seasonally adjusted	Seasonally adjusted	
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	
1974								
January February March	327 333 329	996	76 55 58	233	63 0 13	160 114 198	594	
April	384 382 570	1,066	37 38 70	186	0 0 20	80 94 333	559	
July	225 321	1,116	162 118 51	243	100 0 0	421 448 120	632	
October	399	1,204	46 59 92	187	240 7 0	190 93 111	559	
1975 January February March	345	1,144	51 61 53	205	5 0 2	114 93 %	388	
April	367	1,141	42 35 76	201	0 0 0	73 86 558	81	
July	345	1,218	184 92 80	253	5 1 0	244 149 124	31	
October November December	412	1,273	67 50 82	192	0 0 0	252 164 255	94	
1976  January February March	. 416 (NA)	(NA)	39 48 (NA)	(NA)	2 2 (NA)	286 95 (NA)	(NA	
Mey								

NA=not available; p=preliminary; r=revised; e=estimated.



		Defense De	partment gross unpo	aid obligations out	standing, DOD			nufacturers' ers, defense	650. Manufac- turers' new
Year	643.	. Total	644. 0	perations	645. Pr	ocurement		ers, detense cts, Census	U.S. Govern- ment, aerospace
and month	Not seasonally adjusted	Seasonally adjusted*	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data—6-month*	industries, Census, seasonally adjusted*
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)
1974									
January February March	38,249 37,963 37,249	37,280 37,001 37,436	7,425 7,055 6,779	6,969 6,964 7,189	23,791 24,032 23,847	23,143 23,175 23,634	2,183 2,064 1,462	1,852 1,802 1,794	4,705
April	37,264 35,601 37,545	38,141 38,076 38,947	7,044 6,476 7,373	7,550 7,301 8,417	23,778 23,123 23,994	23,970 23,987 23,756	1,527 2,079 1,752	1,844 1,710 1,904	3,073
July	e39,626 40,594 41,055	e40,435 40,152 40,488	e8,149 8,426 8,311	e8,392 8,010 7,991	e24,316 23,791 24,283	e24,914 24,351 24,703	1,377 3,229 1,678	1,940 1,919 1,965	5,709
October	41,201 40,949 40,407	39,731 40,068 40,047	8,607 7,906 7,654	7,610 7,334 7,556	24,361 25,147 25,199	24,337 25,022 25,024	1,401 2,351 1,668	1,951 1,994 1,813	5,627
January February March	40,819 40,008 39,473	39,823 39,147 39,791	7,997 7,520 7,169	7,495 7,460 7,651	25,484 25,452 25,688	24,838 24,568 25,259	1,635 2,147 1,702	1,817 1,857 1,742	4,252
April	38,589 37,120 39,557	39,457 39,658 41,334	7,276 6,746 7,303	7,807 7,666 8,346	24,932 24,321 25,311	24,957 25,099 25,438	1,639 1,659 1,909	1,782 1,812 1,796	3,875
July	e41,470 43,248 43,084	642,144 42,651 42,281	e8,733 8,677 8,677	e8,939 8,280 8,287	e25,167 26,070 26,002	e25,370 26,684 26,479	1,818 2,048 1,991	1,844 1,806 1,821	r4,721
October November December	43,754 42,767 41,551	42,193 41,724 40,897	9,259 8,804 8,261	8,172 8,144 8,155	26,081 25,810 25,507	26,238 25,707 25,305	1,408 1,750 1,501	1,753 1,699 rl,662	p5,495
January	42,110 41,512 (NA)	40,804 41,101 (NA)	8,947 8,538 (NA)	8,489 8,624 (NA)	25,503 25,586 (NA)	24,905 24,841 (NA)	1,497 r1,826 p2,927	pl,818	(NA)
April									11052 1782 1784
July									15
October									



	hours, produc	weekly overtime tion workers, de- s industries, BLS	654. A	ccession rate, defense industries, BLS	products	655. Layoff rate, defense products industries, BLS			
Year and month	Not seasonally adjusted	Seasonally adjusted*	Not seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data—4-month*	Not sessonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data— 4-month*	
	(Hours)	(Hours)	(Per 100 employees)	(Per 100 employees)	(Per 100 employees)	(Per 100 employees)	(Per 100 employees)	(Per 100 employees)	
1974									
January	2.9	3.0	2.1	2.2	2.2	0.6	0.4	0.5	
February	2.7	2.8	1.8	2.1	2.1	0.6	0.5	0.5	
March	2.8	2.9	1.9	2.1	2.2	0.6	0.4	0.4	
Andi	2.1	2.	2.1	2.2	2.2	0.4	0.5	0.5	
April	2.8	3.1	2.1	2.3	2.2	0.6	0.5	0.5	
May	3.0	3.0	2.8	2.1	2.2	0.5	0.6	0.5	
JUINE	3.0	3.0	2.0	2.1	2.2	0.5	0.0	0.5	
July	2.7	3.0	2.6	2.3	2.2	0.4	0.5	0.6	
August	2.8	2.8	2.6	2.2	2.2	0.5	0.6	0.6	
September	2.9	2.6	2.6	2.2	2.1	0.5	0.6	0.6	
October	2.8	2.7	2.1	1.9	2.0	0.7	0.5	0.0	
November	2.8	2.6	1.3	1.9	1.8	0.7	0.7	0.6	
December	3.0	2.6	0.9	1.7	1.7	0.8	0.8	0.8	
1975	,		0.7		1	0.0	0.0	0.0	
January	2.4	2.5	1.4	1.6	1.6	1.2	1.1	1.0	
February	2.4	2.5	1.3	1.6	1.6	1.3	1.2	1.2	
March	2.3	2.5	1.3	1.6	1.7	2.1	1.9	1.4	
April	2.1	2.4	1.9	2.1	1.6	1.4	1.3	1.4	
May	2.0	2.3	1.3	1.3	1.5	1.3	1.3	1.5	
June		2.4	1.7	1.0	1.4	1.3	1.4	1.2	
July		0.5							
August		2.5	1.6	1.3	1.2	0.8	1.0	1.2	
September	2.8	2.5	1.6	1.2	1.2	1.2	1.3	1.2	
		2.0	1.7	1.,	1.2	1.0	1.2	1.2	
October		2.6	1.4	1.2	1.2	1.0	1.1	1.1	
November	2.7	2.5	1.0	1.3	1.4	0.8	0.7	0.9	
December	2.9	2.5	0.8	1.6	1.4	0.6	0.6	0.8	
1976									
January	2.5	2.6	1.3	1.4	(NA)	1.1	1.0	(NA)	
February	p2.5	p2.6 (NA)	(NA)	(NA)		(NA)	(NA)		
March	(NA)	(NA)	1 1000	1990					
April									
May									
June									
L.L.									
July									
August									
October									
November									
December									

NA=not available; p=praliminary; r=revised: e=estimated. \*Indicates series shown in charts. (See page 8.)



	657. Output of defense and space equipment, FRB,	659. Manufacturers' inventories, defense products, Census,	661. Manufacturers' unfilled orders, defense products,	664. Manufacturers' unfilled orders from the U.S. Gov-	666. Defense Department progress payments out-		ment in defense stries, total, BLS
Year and month	seasonally adjusted*	seasonally adjusted*	Census, seasonally adjusted*	ernment, aerospace industries, Census, seasonally adjusted*	standing, DOD, not seasonally adjusted*	Not seasonally adjusted	Seasonally adjusted*
	(Index: 1967=100)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Thous.)	(Thous.)
1974							
January	81.4	5,679	21,372			3 303	
February	80.9	5,837	21,827	•••	• • •	1,181	1,177
March	81.0	5,966	21,678	17,378	7,781	1,176	1,176
		2,750	~1,070	11,010	7,701	1,175	1,180
April	80.6	5,978	21,622			3 377	2 2 2 2
May	82.2	6,119	22,107	•••	•••	1,174	1,181
June	81.7	6,201	22,261	16,847	g 10/	1,170	1,179
		.,	,	10,047	8,104	1,175	1,179
July	82.6	6,303	22,208			1,176	1 10/
August	82.7	6,431	23,941			1,140	1,184
September	83.1	6,377	23,979	19,002	8,531	1,185	1,181
October	84.1	1 1/0				-,	
November	83.7	6,463	23,715	***	***	1,196	1,188
December	83.4	6,477	24,530	***	***	1,196	1,183
1975	03.4	6,543	24,612	20,662	9,166	1,184	1,171
January	83.8	6,503	24,603			1,178	3 300
February	82.4	6,714	24,603 24,998		***	1,141	1,175
March	82.1	6,867	24,986	20,811	9,609	1,137	1,141
Anril	82.4	( ond				-,,	-,
April	82.7	6,978	24,883		•••	1,121	1,128
June	82.9	7,110	24,875	• • •	• • • •	1,131	1,140
Julia .,	02.7	7,637	25,118	21,147	10,464	1,123	1,127
July	82.6	7,455	25,368				
August	81.4	7,575	25,685		•••	1,110	1,117
September	81.6	7,687	26,011	r20,786	77 000	1,100	1,108
		,,,,,,	20,011	120,100	11,008	1,104	1,100
October	81.1	7,730	25,552			1,097	1,090
November	r79.4	7,824	25,566		***	1,089	1,077
December	r79.0	7,806	25,403	p21,890	11,257	1,088	1,075
1976						-,	1,075
January	-mo a	m / in	0				
February	r79.3 r79.1	7,642	25,050		***	1,084	1,081
March	p78.9	7,845 (NA)	r24,977	(22.)	(***)	1,075	1,076
	p/0.7	(MA)	p26,040	(NA)	(NA)	pl,074	pl,079
April							
May							
June							
July							
August							
September							
October							
November							
December							

NA=not available; p=preliminary; r=revised; e=estimated.

\*Indicates series shown in charts. (See pages 9 and 10.)



		efense products industries, workers, BLS		ite weekly hours, defense industries, BLS	675. Index of aggregate weekly payrolls, product workers, defense products industries, BLS				
Year and month	Not seasonally adjusted	Seasonally adjusted*	Not seasonally adjusted	Seasonally adjusted*	Not seasonally adjusted	Seasonally adjusted*			
	(Thous.)	(Thous.)	(1967=100)	(1967=100)	(1967=100)	(1967=100)			
1974									
January	627	623	69.8	69.8	96.7	96.5			
February	623	622	69.6	69.6	96.5	96.3			
March	621	624	69.7	69.9	97.0	97.2			
April	620	624	68.7	69.4	94.1	95.9			
	615	622	69.4	69.8	97.6	98.1			
	616	620	69.3	69.5	96.9	98.0			
July	612	618	68.7	69.8	94.9	98.4			
	576	584	66.3	67.0	89.6	91.9			
	621	619	69.7	69.3	99.8	99.0			
October November December	632	627	70.4	70.0	103.2	102.			
	634	624	70.7	69.5	105.3	102.			
	623	611	70.5	69.1	106.3	101.			
January	618	615	69.2	69.2	102.8	102.			
	589	589	67.0	67.0	98.6	98.			
	585	588	66.8	67.0	99.1	99.			
April	570	574	66.1	66.8	97.6	99.			
	581	588	66.5	66.8	100.2	101.			
	573	577	66.4	66.6	101.2	102.			
July	564	570	65.0	66.1	97.9	101.			
	555	563	64.9	65.6	98.3	101.			
	558	556	65.5	65.1	102.0	101.			
October	554	549	64.9	64.5	101.5	100.,			
	549	540	64.6	63.5	101.8	98.,			
	549	538	65.0	63.8	104.9	99.,			
January	r545 r541 p540	r542 r541 p543	r64.1 p63.4 (NA)	r64.1 p63.4 (NA)	r101.3 p100.9 (NA)	r101.: p100.			
April May June July August September October November December									

NA=not available; p=preliminary; r=revised; e=estimated. \*Indicates series shown in charts. (See page 10.)



	Defense Departme	nt personnel, DOD	Defense Department net outlays, DOD										
Warra	677. Military, active duty, not seasonally	678. Civilian, direct hire employment,	680. Tot	al, military functions ar assistance	681. Operations								
Year and month	adjusted*	not seasonally adjusted*	Not seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data—6-month*	Not seasonally adjusted	Seasonally adjusted						
	(Thous.)	(Thous.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)						
1974													
January February March	2,199 2,195 2,187	1,034 1,039 1,042	6,728 6,384 6,702	6,538 6,717 6,536	6,524 6,527 6,537	4,376 4,137 4,398	4,333 4,313 4,364						
April	2,174 2,156 2,162	1,046 1,053 1,070	6,685 7,204 7,872	6,458 6,745 6,894	6,648 6,712 6,801	4,367 4,718 4,835	4,221 4,536 4,296						
July	2,162 2,153 2,157	1,074 1,064 1,049	5,979 6,897 6,948	6,921 7,254 7,463	6,956 7,068 7,218	4,628 4,804 4,575	4,917 4,957 4,828						
October	2,156 2,154 2,140	1,046 1,046 1,043	7,271 7,473 7,451	7,130 7,648 7,549	7,328 7,302 7,358	4,817 4,912 4,742	4,855 5,043 4,845						
January February March	2,145 2,146 2,137	1,038 1,036 1,034	7,051 7,258 7,244	6,766 7,590 7,190	7,312 7,284 7,258	4,775 4,727 4,736	4,60 4,90 4,77						
April	2,127 2,124 2,128	1,034 1,035 1,042	7,190 7,780 7,476	6,958 7,494 6,336	7,056 7,308 7,475	4,960 4,909 4,954	4,74 4,96 4,39						
July	2,111	1,052 1,038 1,030	7,124 7,961 6,631	8,278 8,594 6,880	7,423 7,552 7,566	4,918 5,081 4,810	5,15, 5,24 5,08						
October	2,099	1,031 1,029 1,028	7,913 7,203 7,695	7,732 7,574 7,672	7,788 7,515 7,222	5,260 4,997 5,078	5,21 5,13 5,06						
January February March	2,093	1,023 1,019 (NA)	6,649 6,790 p6,962	6,636 6,838 p6,681		4,887 r4,848 p5,027	4,89 4,82 p4,96						
April													
July													
October													

NA=not available; p=preliminary; r=revised; e=estimated. \*Indicates series shown in charts. (See pages 10 and 11.)



	Defense Depa	artment net outlays, DO	D-Continued		rys for the national tion, Treasury	685. Defense Department personnel compensation, DOD				
Year		682. Procurement		Seesonally adjusted*	Moving average of seasonally adjusted	Not seasonally adjusted	Seasonally adjusted*			
and month	Not seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data—6-month*		data—6-month*					
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)			
1974										
January February March	1,270 1,195 1,313	1,262 1,276 1,241	1,300 1,289 1,268	6,569 6,835 6,579	6,613 6,617 6,640	2,879 2,651 2,700	2,738 2,702 2,687			
April	1,382 1,292 1,346	1,355 1,227 1,165	1,254. 1,179 1,204	6,567 6,874 6,973	6,733 6,768 6,831	2,750 2,817 2,710	2,739 2,745 2,782			
July	801 1,348 1,251	810 1,425 1,343	1,221 1,224 1,270	6,783 7,212 7,362	6,962 7,112 7,254	2,835 2,814 2,741	2,793 2,835 2,823			
October	1,455 1,372 1,439	1,377 1,501 1,569	1,338 1,440 1,444	7,467 7,727 7,809	7,393 7,436 7,550	2,869 2,827 2,874	2,86, 2,86, 2,92			
January February March	1,351	1,428 1,444 1,440	1,460 1,429 1,414	7,039 7,896 7,385	7,554 7,526 7,536	2,913 2,808 2,812	2,76 2,86 2,79			
April	1.467	1,194 1,406 1,215	1,354 1,328 1,360	7,297 7,788 6,649	7,342 7,564 7,747	2,867 2,870 2,823	2,83 2,85 2,86			
July	1,559	1,268 1,634 1,217	1,322 1,361 1,330	8,367 8,996 7,140	7,706 7,818 7,836	2,941 2,873 2,936	2,89 2,92 2,99			
October	1,081	1,425 1,220 1,427	1,365 1,384 1,328	7,971 7,896 8,103	8,079 7,830 7,352	3,008 2,866 2,916	2,99 2,92 2,92			
January February March	1,227	1,384 1,293 pl,082	pl,305	6,874 6,126 7,497	7,411	r3,018 p2,838 (NA)	r2,91 p2,81 (NA			
April										
July										
October										

NA=not available; p=preliminary; r=revised; e=estimated.

\*Indicates series shown in charts. (See page 11.)



		s' shipments, defense s, Census	689. Manufacturers' shipments to the		cturers' unfilled orders ense products, Census	693. Ratio, manufacturers' inventories to shipments, defense products, Census			
Year and month	Seasonally adjusted*	Moving average of seasonally adjusted data-5-month*	U.S. Government, aerospace industries, Census, seasonally adjusted*	Seasonally adjusted*	Moving average of seasonally adjusted data—6-month*	Seasonally adjusted*	Moving average of seasonally adjusted data-6-month*		
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Ratio)	(Ratio)	(Ratio)	(Ratio)		
1974									
January February March	1,552 1,610 1,612	1,564 1,573 1,591	3,696	13.8 13.6 13.4	13.4 13.6 13.7	3.7 3.6 3.7	3.6 3.7 3.7		
April	1,586 1,594 1,596	1,600 1,564 1,541	3,780	13.6 13.9 13.9	13.7 14.0 14.4	3.8 3.8 3.9	3.8 3.9 4.0		
July	1,431 1,497 1,638	1,551 1,565 1,553	3,834	15.5 16.0 14.6	14.6 14.7 15.0	4.4 4.3 3.9	4.0 4.0 4.1		
October	1,663 1,536 1,585	1,584 1,613 1,636	3,888	14.3 16.0 15.5	15.3 15.2 15.0	3.9 4.2 4.1	4.1 4.1 4.0		
January February March	1,644 1,753 1,714	1,646 1,688 1,704	4,049	15.0 14.3 14.6	15.0 15.0 14.8	4.0 3.8 4.0	4.0 4.0 4.0		
April	1,742 1,668 1,666	1,709 1,671 1,675	4,056	14.3 14.9 15.1	14.7 14.9 15.0	4.0 4.3 4.4	4.1 4.2 4.3		
July	1,567 1,732 1,665	1,660 1,699 1,713	r4,814	16.2 14.8 15.6	15.2 15.0 15.0	4.8 4.4 4.6	4.4 4.4 4.5		
October	1,736	1,732 1,756 rl,803	p4,313	13.7 14.7 15.3	15.0 14.6 r14.3	4.1 4.5 4.7	4.5 4.4 4.4		
January February March	r1,899	pl,802	(NA)	13.5 r13.2 p14.0	p14.1	4.1 4.1 (NA)	(NA)		
April									
August									
October									

NA=not available; p=preliminary; r=revised; e=estimated. \*Indicates series shown in charts. (See page 12.)

# **Defense-Related Balance of Payments Components**



		der U.S. military agency ts (exports), BEA <sup>1</sup>	547. Direct defense expenditures (imports),		nt cash receipts associated les contracts, BEA <sup>2</sup>
Year and month	Not seasonally adjusted	Seesonally adjusted*	BEA, not seasonally adjusted*	Not seasonally adjusted	Seasonally adjusted*
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)
1974					
lanuary	•••	•••			
February	639	663	1,166	499	544
March	•••			•••	
April	***		•••		
May June	738	678	1,324	645	653
	•••		•••	•••	•••
July	***	***			
August	716	766	1,279	996	998
September		•••	•••	•••	•••
October					
November	852	837	1,335	817	762
December		•••	•••	***	***
January					
February	909	949	1,303	1,082	2 226
March		747	1,505	1,002	1,126
April					
May	888	800	1,209	1,034	1,042
June		•••			1,042
July					
August	1,000	1,070	1,120	1,179	1,179
September				1,177	1,17
October	•••				
November	pl,184	pl,162	pl,167	pl,389	pl,337
December	•••	•••	•••		•••
January				-	
February	(NA)	(NA)	(NA)	(NA)	(NA)
April					
May			1 = 101		
June					
July					
August					
October	and the same of the same of	The state of the s			
November	Part Ingel Comment				
December					

NA=not available; p=preliminary; r=revised; e=estimated. \*Indicates series shown in charts. (See page 13.)

1 Includes deliveries for which, under Fublic Law 93-199, Israel has been released from its contractual liability to pay.

Excludes funds made available to release Israel from its contractual liability to pay for defense articles and services purchased through military sales contracts. Quarterly expenditures for such purpose under Public Laws 93-199 and 93-559 (sec.45 (a) (7) (B)) amounted to (in millions): 1974, IIQ, \$623; IIIQ, \$223; IVQ, \$91; 1975, IQ, \$187; IIQ, \$124; IIIQ, \$87; IVQ, \$250.

#### Appendix A. SEASONAL ADJUSTMENT FACTORS

Series title			19	75					19	76		
MONTHLY SERIES	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
Defense Department gross obligations incurred:												
617. Total <sup>1</sup>	115.0	104.3	97.4	107.8	86.5	90.3	106.4	90.5	93.2	95.0	77.8	133.3
619. Operations <sup>1</sup>	118.1	100.2	95.6	108.3	90.5	91.1	104.9	91.2	93.3	102.8	89.1	117.6
621. Procurement	72.8	88.9	98.1	112.3	107.0	95.6	128.5	103.3	89.1	68.6	64.9	166.7
23. Gross obligations incurred outside the Federal Government	228 /	301 5	0/ "	305.0	05.6	07.0	108.1	86.7	95.2	0, 0	00 F	119.9
for national defense <sup>1</sup>	117.4	104.5	96.5	105.2	95.6	97.0	100.1	00.7	97.4	94.2	82.5	119.
25. Defense Department military prime contract awards for work performed in the United States	113.9	104.4	103.2	107.2	90.8	91.7	96.5	84.5	84.9	72.5	71.9	179.
efense Department gross unpaid obligations outstanding: <sup>2</sup>												
643. Total	98.4	101.4	101.9	103.7	102.5	101.6	103.2	101.0	97.9	95.5	91.9	95.
644. Operations	97.7	104.8	104.7	113.3	108.1	101.3	105.4	99.0	92.8	93.1	87.0	89.
645. Procurement	99.2	97.7	98.2	99.4	100.4	100.8	102.4	103.0	102.0	99.8	96.9	100.
48. Manufacturers' new orders, defense products <sup>3</sup>	178.1	85.4	116.2	104.9	91.8	106.5	94.9	98.1	98.4	87.5	71.2	93.
53. Average weekly overtime hours, production workers, defense												
products industries <sup>4</sup>	3	.0	.3	.1	.3	.4	1	1	1	3	3	
54. Accession rate, defense products industries <sup>4</sup>	.3	.4	.4	.2	3	8	1	3	2	2	.0	
55. Layoff rate, defense products industries <sup>4</sup>	1	1	2	.0	.1	.0	.1	.1	.1	.1	.0	
57. Output of defense and space equipment <sup>3</sup>	98.6	98.9	100.1	100.1	100.9	101.8	100.0	99.9	100.4	99.4	99.9	
59. Manufacturers' inventories, defense products <sup>3</sup>	100.2	99.2	99.7	100.6	100.6	99.4	98.6	99.8	101.3	100.6	100.0	99.
61. Manufacturers' unfilled orders, defense products <sup>3</sup>	101.0	99.7	100.5	101.0	99.9	99.8	101.0	101.2	101.0	99.8	97.3	96.
mployment in defense products industries:	99.3	99.3	100.3	100.6	101.1	101.2	100.3	99.9	99.5	99.4	99.2	99.
670. Total	99.0	98.6	100.3	100.8	101.7	102.0	100.6	100.0	99.5	99.3	98.8	99.
671. Production workers	77.0	70.0	100.5	100.0	101.7	102.0	100.0	100.0	77.7	77.3	70.0	77.
73. Index of aggregate weekly hours, defense products	00 /	98.9	100.6	100.6	101.7	102.0	100.0	100.0	99.6	98.9	99.4	99.
industries	98.4	90.9	100.0	100.0	101.7	102.0	100.0	100.0	99.0	90.9	99.4	77.
75. Index of aggregate weekly payrolls, production workers, defense products industries	96.3	97.3	100.8	101.2	103.1	105.1	100.2	100.3	99.7	98.0	99.0	98.
Defense Department net outlavs:												
680. Total, military functions and military assistance <sup>1</sup>	86.1	92.6	96.4	102.3	95.1	100.3	100.2	99.3	104.2	102.2	97.8	120.
681. Operations <sup>1</sup>	95.4		94.6		97.4	100.2	99.9	100.5	101.2	102.0	97.1	
682. Procurement <sup>1</sup>	96.6	95.4	97.9		88.6	92.4	98.5	94.9	110.4	95.1	99.7	
83. Budget outlays for the national defense function <sup>1</sup>	87.3		97.0			98.5	100.6	99.9	103.4	102.7	97.3	
885. Defense Department personnel compensation <sup>1</sup>	101.6		97.9			99.7	103.5		101.9	100.4	99.2	
888. Manufacturers' shipments, defense products <sup>3</sup>	98.1		103.4	99.5		108.3	88.0	96.4	99.5	99.6	98.9	
QUARTERLY SERIES		IIIQ			IVQ			10			IIQ	
200. Gross national product <sup>3</sup>		98.4			104.5			96.1			100.9	
264. Fed. Govt. purchases of goods and services, national defense <sup>3</sup>		95.0			100.9			99.2			104.9	
46. Transfers under U.S. military agency sales contracts-exports <sup>5</sup>		-50			15			-24			60	
Defense Department military prime contract awards:		102.5			92.6			98.6			102.7	
626. Aircraft												
627. Missile and space systems		133.0			104.5			83.9			73.5	
629. Weepons and ammunition		43.3			112.3			95.3			150.6	
630. Electronic and communications equipment		83.0		1	95.2			93.6			124.9	
631. Combat vehicles		110.4		1				56.8 90.8			146.2	
632. Other hard goods		69.3			84.9						149.2	
633. Soft goods		146.6						82.8			74.9	
634. Construction		66.0			63.0			76.6			196.8	
636. Under \$10,000		123.9						65.7			104.9	
637. Educational and nonprofit institutions.		140.5			93.8			99.3			75.3	
640. Outside U.S.		163.3			71.3			76.4			89.6	
Aerospace industries:												
650. Manufacturers' new orders from the U.S. Government		121.0	)		100.8			88.5			87.0	)
664. Manufacturers' unfilled orders from the U.S. Government .		102.1			101.8			100.2			96.7	
689. Manufacturers' shipments to the U.S. Government		99.1			103.8		1	94.8			100.9	

NOTE: The seesonal adjustment factors presented in this table were computed using the techniques described in the Bureau of the Census Technical Paper No. 15, The X-11 Variant of the Census Method II Seasonal Adjustment Program.

Monthly data for Defense Department military prime contract awards by commodity category (series 626 to 640) have not been adjusted for seasonal variation. The series on direct defense expenditures-imports (series 547), Defense Department progress payments outstanding (series 666), and Defense Department personnel (series 677 and 678) contain no measurable seasonal variation.

<sup>1</sup> Factors are products of seasonal and trading-day factors.
<sup>2</sup> Prior to 1972, data for gross unpaid obligations outstanding are not available for a number

of months but these gaps were filled with averages of preceding and following months for purposes of estimating seasonal variation.

<sup>3</sup> These series have been adjusted by the source agencies. The factors shown here are

implicit seasonal factors for the calendar year 1973 and are derived by dividing the seasonally

unadjusted data by the seasonally adjusted data.

These series have been seasonally adjusted using the additive version of the seasonal adjustment program. Seasonally adjusted data are derived by subtracting the adjustment factor from the unadjusted data. Seasonally adjusted data for other series are derived by dividing the sessonal factors into the unadjusted data.

<sup>3</sup>This series is the total of component series which have been adjusted separately by the source agency. The factors shown here are implicit seasonal factors for the calendar year 1974 and are derived by subtracting the seasonally adjusted data from the seasonally unadjusted

# Appendix B. AVERAGE CHANGES AND RELATED MEASURES OF VARIABILITY Part 1. Monthly Series

Series title	Period	ō	Cī	ī	c	ī/c	MCD	Average of run	
	covered							CI	MCD
Defense Department gross obligations incurred:									
617. Total	Jan. '57-Jan. '74	18.68	7.38	7.29	0.75	9.72	6	1.53	2.31
619. Operations	July '59-Jan. '74	8.33	2.61	2.50	.64	3.88	4	1.72	3.00
621. Procurement	Jan. '57-Jan. '74	45.13	22.23	22.10	1.68	13.19	6	1.49	2.12
623. Gross obligations incurred outside the Federal Government for national									
defense	July '63-Jan. '74	(NA)	6.94	6.82	.74	9.21	6	1.52	2.47
625. Defense Department military prime contract awards for work performed									
in the United States, total	Jan. '57-Jan. '74	33.17	15.07	14.94	1.32	11.33	6	1.39	2.03
Defense Department gross unpaid obligations outstanding:									
643. Total	Jan. '57-Jan. '74	2.08	1.36	.90	.91	.99	1	2.58	2.58
644. Operations	Jan. '67-Jan. '74	5.47	2.48	2.16	1.06	2.03	3	2.00	4.82
645. Procurement	Jan. '67-Jan. '74	2.49	1.51	.99	.99	1.00	2	2.15	4.88
Manufacturers' new orders:  647. Defense products industries	Jan. '57-Mar. '72	(NA )	35 37	7/ 00	000	3 5 30		1 50	0.00
648. Defense products	Feb. '68-Jan. '74	(NA)	15.11	14.89	.97	15.32	6	1.58	2.33
653. Average weekly overtime hours, production workers, defense products	reb. 66-Jan. 74	25.69	19.12	19.01	1.59	11.94	6	1.45	2.00
industries (hours)	Jan. '58-Jan. '74	00	32	12	OF	2.84	3	2.13	4.2
654. Accession rate, defense products industries (per 100 employees)	Jan. '58-Jan. '74	.22	.13	.13	.05	3.12	4	2.13	3.7
655. Layoff rate, defense products industries (per 100 employees)	Jan. '58-Jan. '74	.17	.13	.13	.04	3.07	4	2.02	4.0
657. Output of defense and space equipment	Jan. '54-Jan. '74	(NA)	.98	.48	.79	.60	1	4.07	4.0
Manufacturers' inventories:	Jan. 54-5an. 74	(IMA)	.90	.40	0/7	.00	7	4.07	4.0
658. Defense products industries	Jan. '57-Mar. '72	(NA)	1.04	.52	.85	.62	1	2,80	2.8
659. Defense products	Jan. '68-Jan. '74	1.89	1.74	1.16	1.27	.92	1	3.00	3.0
Manufacturers' unfilled orders:	Juli. 00 Juli. 74	1.09	1.74	1.10	1.21	.76	-	3.00	2.00
660. Defense products industries	Jan. '57-Mar. '72	(NA)	1.23	.90	.83	1.09	2	2.76	3.4
661. Defense products	Jan. '68-Jan. '74	1.93	1.64	1.11	.99	1.11	2	2.77	3.9
Employment in defense products industries:		1.75	2.04				~		
670. Total	Jan. '58-Jan. '74	.74	.68	.25	.60	.42	1	4.68	4.6
671. Production workers	Jan. '58-Jan. '74	1.02	.86	.43	.69	.63	1	3.62	3.6
673. Index of aggregate weekly hours, defense products industries	Jan. '58-Jan. '74	.92	.75	.35	.62	.56	1	4.09	4.0
675. Index of aggregate weekly payrolls, production workers, defense products	C. D. St. Hall								4 7
industries	Jan. '58-Jan. '74	1.61	1.07	.65	.81	.80	1	3.05	3.0
Defense Department personnel:									
677. Military, active duty @	Jan. '57-Jan. '74			.26	.59	.44	1	4.25	4.2
678. Civilian, direct hire employment @	Jan. '57-Jan. '74 .	. 55	(NA)	.33	.43	.79	1	4.25	4.2
Defense Department net outlays:									
680. Total, military functions and military assistance	Jan. '57-Jan. '74 .	9.06		3.87	.75		6	1.71	3.1
681. Operations	July '59-Jan. '74 .			3.31	.70		5	1.61	2.4
682. Procurement		15.02		11.44	1.55		6	1.59	2.8
683. Budget outlays for the national defense function	Jan. '57-Jan. '74 .	(NA)		4.02	.69			1.58	3.0
685. Defense Department personnel compensation	Jan. '67-Jan. '74 .	2.72	1.40	1.21	.53	2.29	4	2.55	4.2
Manufacturers' shipments:		(000.5							
687. Defense products industries	Jan. '57-Mar. '72 .	. (NA)		2.49	.87		3	1.64	3.4
688. Defense products	Jan. '68-Jan. '74 .	6.98	4.45	4.40	.95	4.62	5	1.41	2.8
Ratio, manufacturers' unfilled orders to shipments:  890. Defense products industries	Jan. '57-Mar. '72 .	(MAX )	1 000	0.03	01	0 00		1 00	2 0
					.96			1.90	3.8
691. Defense products	Jan. '68-Jan. '74 .	. 8.23	5.09	5.05	.93	5.46	6	1.60	3.0
692. Defense products industries	Jan. '57-Mar. '72	. (NA.)	2.84	2,90	.72	4.01	5	2.46	5.7
693. Defense products					.75		1	1.76	
out. Determine products	Jan. 00-Jan. 74 .	. 0.00	10.31	2.44	0/2	1.20	0	1.10	200

NA = not available.

\*Measures for these series are based on actual changes rather than percent changes (see definition below). We indicates measures are based on unadjusted data.

#### BRIEF DEFINITIONS OF MEASURES SHOWN IN PART 1

The measures in this appendix provide a historical perspective for interpreting current changes in each series. They are derived using the Census X-11 seasonal adjustment program. Brief definitions of the measures are given below; more complete definitions appear in *Electronic Computers and Business Indicators* by Julius Shiskin, issued as Occasional Paper 57 by the National Bureau of Economic Research, 1957 (reprinted from *Journal of Business*, October 1957).

"O" is the average month-to-month percent change, without regard to sign, in the original unadjusted series. (See final paragraph below for exceptions to these definitions.)

"CI" is the same for the seasonally adjusted series.

" $\overline{C}$ " is the same for the short-term trend, which is a smooth, flexible moving average of the seasonally adjusted series.

" $\overline{l}$ " is the same for the irregular component, which is obtained by dividing the seasonally adjusted series by the short-term trend.

"Ī/C" measures the relative smoothness (small values) or irregularity (large values) of the seasonally adjusted series. It is the ratio of the average monthly percent change (without regard to sign) in the irregular component to the average monthly percent change (without regard to sign) in the short-term trend.

"MCD" (months for cyclical dominance) estimates the number of months required for the short-term trend to dominate the irregular component. Average percent changes are computed for spans of from 1 to 12 months for both the irregular component and the short-term trend. MCD is the shortest span of months for which the average percent change (without regard to sign) in the short-term trend is greater than that in the irregular component. All MCD's greater than "5" are shown as "6".

# Appendix B. AVERAGE CHANGES AND RELATED MEASURES OF VARIABILITY—Continued

"Average Duration of Run" (ADR) is another measure of smoothness and is equal to the average number of consecutive monthly changes in the same direction in any series of observations. When there is no change between two observations, a change in the same direction as the preceding change is assumed. The ADR is shown for the seasonally adjusted series (CI) and the MCD curve, which is a moving average (with the number of terms equal to MCD) of the seasonally adjusted series. A comparison of these measures with the expected ADR of a random series indicates whether the changes approximate those of a random series. In a random series, the expected ADR is 1.5 and the actual values fall between 1.36 and 1.75 about 95 percent of the time. For a moving average of a random series, the expected ADR is 2.

Measures for series identified with an asterisk (\*) are computed by an additive method. This method is used for series with zero or negative data, series which could approach zero, and series expressed in percent. In this method, the measures are defined the same as above except for two differences: (1) the measures are based on actual month-to-month changes (rather than percent changes) and (2) the irregular component is obtained by subtracting the short-term trend from the seasonally adjusted series. The average changes shown above for the components of such a series are in the same unit of measure as the series itself. The unit is indicated in the series title.

#### Part 2. Quarterly Series

	Series title	Period	ō	CI	ī	C	T/C	acp	Average of run	
		covered							Ci	QCD
200.	Gross national product	ια '57-Ινα '73	5.70	1.79	0.32	1.73	0.18	1	9.57	9.57
264.	Federal Government purchases of goods and services, national defense	IQ '57-IVQ '73	6.18	2.00	.76	1.71	.45	1	3.05	3.05
*546.	Transfers under U.S. military agency sales contracts-exports (mil. dol.)	IQ '60-IVQ '73	76.33	54.22	39.30	29.71	1.32	2	1.67	2.35
*547.	Direct defense expenditures-imports (mil. dol.) (1)	IQ '60-IVQ '73	34.27	(NA)	26.55	21.70	1.22	2	1.83	2.70
*613.	National defense purchases as a percent of GNP (percent)	IQ '57-IVQ '73	.33	.18	.08	.16	.48	1	5.58	5.58
650.		IQ '61-IVQ '73	(NA)	16.77	14.80	5.06	2,92	4	1.38	1.66
664.	Manufacturers' unfilled orders from the U.S. Government, aerospace	IQ '61-IVQ '73	, , ,					7		2.32
000	industries  Defense Department progress payments outstanding	IQ '57-IVQ '73	(NA)	3.75	2.31	2.51	.92	1	2.32	2.48
666.	Manufacturers' shipments to the U.S. Government, aerospace industries	IQ '61-IVQ '73	4.73	(NA)	2.25	4.22		2	1.70	2.2
689.		IU 01-1VU /3	(NA)	4.16	3.27	1.99	1.64	2	1.70	2.21
-036.	U.S. Government cash receipts associated with military sales contracts (million dollars)	IQ '60-IVQ '73	96.62	73.64	56.86	38.62	1.47	2	1.57	2.35

NA = not available.

\*Measures for these series are based on actual changes rather than percent changes (see definition below).
measures are based on unadjusted data.

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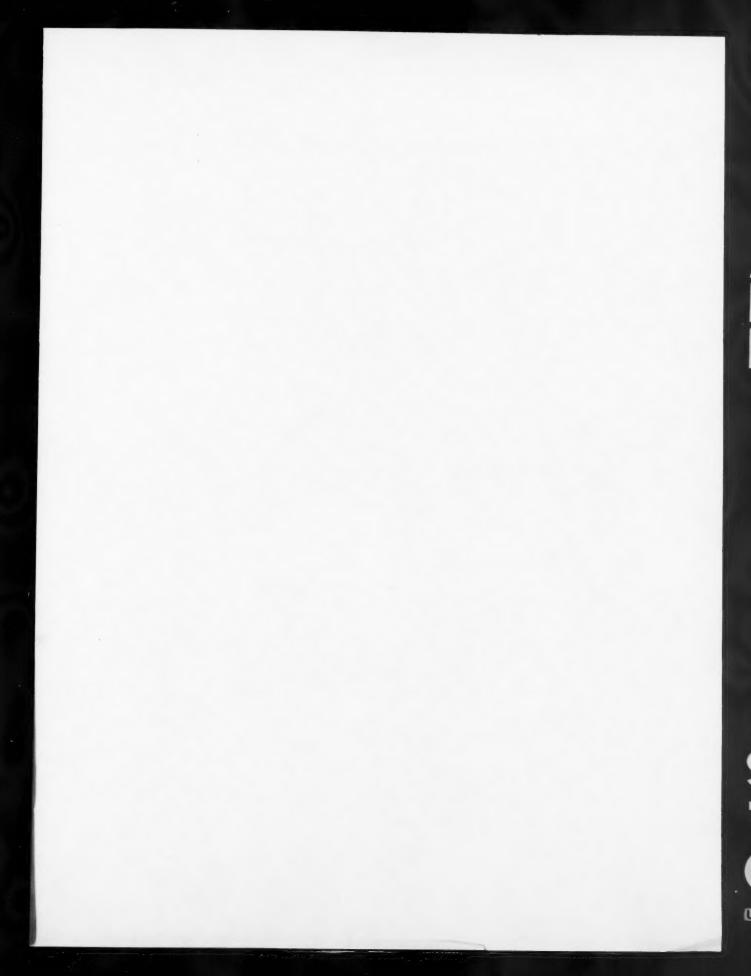
#### **BRIEF DEFINITIONS OF MEASURES SHOWN IN PART 2**

These measures are defined the same as those in part 1 except that they are based on quarter-to-quarter percent changes. For example,  $\overline{Cl}$  is the average quarter-to-quarter percent change (without regard to sign) in the seasonally adjusted series.

In deriving "QCD" (quarters for cyclical dominance), average percent changes are computed for spans of from one to four quarters for the irregular component and the short-term trend. QCD is the shortest span of quarters for

which the average percent change (without regard to sign) in the short-term trend is greater than that in the irregular component. All QCD's greater than "3" are shown as "4". The "Average Duration of Run" (ADR) measures are also expressed in quarters.

As in part 1, measures for series identified with an asterisk (\*) are computed by an additive method. This method is the same as that used for the monthly series except for the use of quarterly data rather than monthly.



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#### ALPHABETICAL INDEX—SERIES FINDING GUIDE

Series title	Series	Curren (page n	it issue umbers)	Historical data	Series descriptions	Series title	Series number		nt issue umbers)	Historical data (issue	Series descriptio (issue
	number	Charts	Tables	(issue date)	(issue date)		number.	Charts	Tables	date)	date)
Accession rate, defense products industries	654	8	21	4/75	4/73	Hours, defense products industries	673	10	23	5/75	4/
kerospace industries	250										
Manufacturers' new orders from U.S. Government	650 689	See New See Ship			1	Inventories, manufacturers'					
Manufacturers' unfilled orders from U.S. Government	664		lled orders.			Defense products Defense products industries	659	9	22	8/75	2/
Wanging to the Control of the Contro	004	300 01111	lied arders	1		Ratio to shipments, defense products	658 693	9	26	1/72 8/75	2/
						Ratio to shipments, defense products industries	692	12 12	26	11/72	2/
alance of payments (defense-related)				2/26	10/73	Trans to arrive and a serior as produced in an arrive 2.1.1.	002	12		11/12	27
Cash receipts associated with military sales contracts	696	13	27	3/76	10/73			1			1
Direct defense expenditures  Transfers under military agency sales contracts	547 546	13		3/76	10/73	Layoff rate, defense products industries	655	8	21	4/75	4.
udget outlays for national defense function	683	See Outi		1 3710	20,10						1
and the same of th	000	Joe Guil		1		Military personnel, Defense Department	677	10	24	8/75	8
		1		1	1	Military prime contract awards—See Contract awards.	urr	10	2.4	0/13	0
ash receipts associated with military sales contracts	696	See Bala	nce of pay	ments.		William & British Spirited Strands and add actions of the second					
ivilian personnel, Defense Department	678	10	24	8 75	8/68	Net uutlays, Defense Department-See Outlays.					
ompensation Payrolls, aggregate weekly, defense products						New orders, manufacturers'					1
industries	675	10	23	5/75	4/73	Defense products	648	7	20	8.75	2
Personnel compensation, Defense Department	685	11	25	5/75	8/68	Defense products industries	647	7		11/72	2
ontract awards, military prime						From Government, aerospace industries	650	8	20	5/75	2
Aircraft	626		16	7/75	8/68						
Civilian Health and Medical Program Combat vehicles	638	***	19 17	7/75	8/68	Obligations incurred, gross					
Construction	631 634		18	7/75	8/68	Defense Department, operations	619		15	4/75	8
Contracts under \$10,000	636		19		8/68	Defense Department, procurement	621	6	15	1/75	8
Educational and nonprofit institutions	637		19		8/68	Defense Department, total Outside Government for national defense	617 623	6	15		8
Electronic and communications equipment	630		17	7/75	8/68	Obligations outstanding, gross unpaid	023		1 16	4770	10
Missile and space systems	627		16	7/75	8/68	Defense Department, operations	644		20	1/75	1 8
Other hard goods	632	***	18			Defense Department, procurement	645		20	4/75	8
Services Ships	635 628	***	18 17		8/68 8/68	Defense Department, total	643	7	20	4/75	8
Soft goods	633	***	18		8/68	Operations, Defense Department	681	C-0.	1	1	1
Total	625	7	16	7/75	8/68	Net outlays Obligations incurred	619	See Out	iays. igations inc	nend	1
Weapons and ammunition	629		1.7	7/75	8/68	Unpaid obligations outstanding	644		igations ou		1
Work putside the U.S.	640	***	19	7/75	8/68	Orders-See New orders and Untilled orders.	011	000 001	1	1	
				1		Outlays				İ	
efense and space equipment, output	657	See The	not of date	anno and end	ce equipment	Budget outlays for national defense function	683	11	25		10
efense Department	007	366 0111	I	F STORY SERVE	1	Detense Department, operations	681	***	24		
Grass obligations incurred - See Obligations incurred						Defense Department, procurement Defense Department, total	682 680	11	25		
Gross unpaid obligations outstanding-See						Output of defense and space equipment	657	9	22		11
Obligations outstanding						Overtime hours, defense products industries	653	8	21		
Military prime contract awards—See Contract awards. Net outlavs—See Outlavs:						Payrolls, aggregate weekly, defense products industries	675	See Co.	1	1	
Personnel—See Civilian personnel and Military						Personnel—See Civilian personnel and Military personnel.	0/3	266 (10)	npensation	1	
personnel.		1				Personnel compensation, Defense Department	685	See Con	npensation		
Personnel compensation	685	See Con	npensation	1		Procurement, Defense Department			1	1	
Progress payments outstanding.	666		reis paym			Net outlays .	682	See Out			
rect defense expenditures	547	See Bala	ence of pay	ments.		Obligations incurred	621		igations in		
		1	1	1		Unpaid obligations outstanding Progress payments outstanding, Defense Department	645 666		igations ou		
mployment				1		Purchases of goods and services for national defense	264	See Gro	ss national	5/75	1
Accession rate, defense products industries	654	See Acc	ession rate	. 1	1	Thronous or goods one services to heronor develop	1	500 010	1	1	
Employment, production workers, defense products		-	1	1	1						
industries	671	10				Shipments, manufacturers'	1			1	
Employment, total, defense products industries	670	1.0	22	5/75	4/73	Defense products	688	12	26		
Hours, defense products industries Layoff rate, defense products industries	673 655	See Hou				Defense products industries Ratio, inventories to shipments, defense products	687	12		11/72	
Overtime hours, defense products industries	653	See Lay	off rate.			Ratio, inventories to shipments, defense products	033	See Inv	entories.	1	
Personnel-See Civilian personnel and Military	000	Jul Or	1	1		industries	692				
personnel.		1				Ratio, unfilled orders to shipments, defense products	691	1			
xpenditures—See Outlays.		1				Ratio, unfilled orders to shipments, defense products		See Un	filled order	S.	
						To Government, aerospace industries	690 689	12	20	5/75	
ederal purchases of goods and services for national						to Government, aerospace industries	009	12	20	0770	
	264	Son Car	ss nationa	l product	1						
defense	1	300 010	I	I product	1	Transfers under military agency sales contracts	546	See Ba	ance of pa	yments.	
									1	1	
ross national product		1			1	Untilled orders, manufacturers'					
Federal purchases of goods and services for national	200		1			Defense products	661	9			
Gran paragraph product	264	5				Defense products industries	660	9			
Gross national product National defense purchases as percent of GNP	613	5			10/73	From Government, aerospace industries	691	12			
Gross obligations incurred—See Obligations incurred.	013		1	1 3/7	10/73	Ratio to shipments, defense products industries	690	12			
Gross unpaid obligations outstanding—See Obligations						Unpaid obligations outstanding—See Obligations	300	1.6		1	
	1			1		outstanding.	1	1		1	



